

LAr R&D Progress Report

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4/2/24



Lab Safety and Space Management

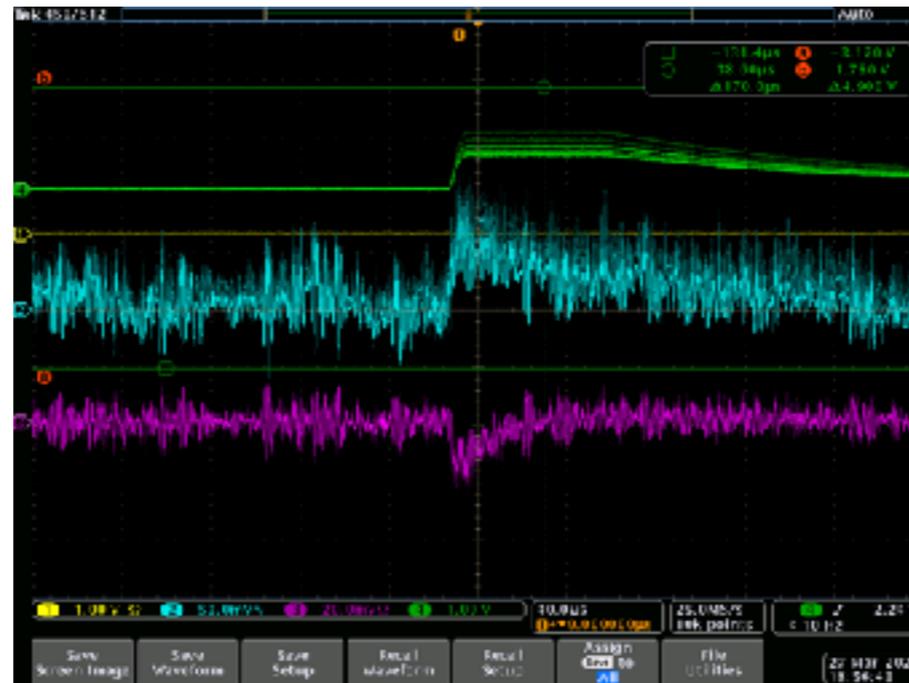
- Leak detector removal
 - The broken leak detector has been removed by the rigging team
 - The work order was put in June, 2023
- Xenon collection lifting device for PIONEER
 - Essential lifting device for the Xenon collection cylinders
 - Webreq put in for rigging device
 - Just approved by Mike Gaffney



260L System Status

► Preparation for the next fill

- System leak checked to required 1×10^{-9} mbar.l/s
- PrM performance test in Vacuum and GAr
- PrM performance validated
- Slow control system problem fixed and tested
- Insulation materials wrapped on the filling hose



260L System Status

▸ 260L System Fill

- 2 x tank of LAr delivery received
- LAr supply dewar connected to the upstream of the inline filter
- 50 Psi LN2 supply dewars reserved for the cryogenic operation
- LN2 supply dewar connected to the system
- System pump-and-purged once
- Slow pumping speed at the beginning of the last purge cycle, conducting a leak check
- Plan to start the fill tomorrow

